

#### **PATENTS**

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re ap	oplication of:	)
	HOWARD ET AL.	)
Serial	No: 10/621,639	)
Filed:	<b>July 17, 2003</b>	)
For:	METHOD AND SYSTEM FOR	PROCESSING CASTINGS

### INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Applicant hereby voluntarily discloses the items listed on the attached Form PTO-1449 to the Assistant Commissioner for Patents. Copies of items A-FV are enclosed herewith.

Applicant further reserves the right to establish the patentability of the claimed invention over any of the listed information should they be applied as references, and/or to prove that some of the cited information may not be prior art, and/or to prove that some of the cited information may not be enabling for the teachings they purport to offer. This statement further should not be construed as a representation that an exhaustive search has been made, or that the information cited herewith is material, or that there does not exist information more material to the examination of the present Application. The Examiner is specifically requested not to rely solely on the information submitted herein. On the contrary, the Examiner is requested to conduct an independent and thorough review of the information, and to form independent opinions as to their significance.

It is respectfully requested that the Examiner initial and return copies of the enclosed PTO-1449 and to indicate in the official file wrapper of the above-identified patent application that each item of the cited information has been considered.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to account no. 09-0528.

Date: 1/12/03

D. Scott Sudderth Reg#34,026 Louis T. Isaf

Reg#29,078

Attorneys for Applicant

Womble Carlyle Sandridge & Rice, PLLC P.O. Box 7037 Atlanta, GA 30357-0037 (404) 872-7000 (Telephone) (404) 888-7490 (Facsimile)

Docket No.:

C152 1160.1



### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being mailed in an envelope by First Class mail to:

> **Commissioner for Patent** P.O. Box 1450 Alexandria, VA 22313-1450

on 9-16-03

(Typed or printed name of person mailing correspondence)

Application Number:

10/621,639

File Date:

July 17, 2003

Title:

METHOD AND SYSTEM FOR PROCESSING CASTINGS

Our Reference Number:

C152 1160.1

Information Disclosure Statement Forms PTO-1449 Copies of References A-FV Return Postcard

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### INFORMATION DISCLOSURE CITATION

Attorney Docket No. Serial No. C152 1160.1 10/621,639 Applicant

Howard et al.

(Use several sheets if necessary)

Filing Date Group July 17, 2003

### U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
i.	A	5,531,423	07/96	Crafton et al.	266	44	
	В	5,565,046	10/96	Crafton et al.	148	538	
•	С	5,294,094	03/94	Crafton et al.	266	44	
	D	5,350,160	09/94	Crafton et al.	266	252	
	Е	5,354,038	10/94	Crafton	266	44	
	F	5,439,045	08/95	Crafton	164	5	
	G	5,551,998	09/96	Crafton et al.	148	538	
	Н	5,738,162	04/98	Crafton	164	5	
	I	4,340,433	07/82	Harding	148	16	
	J	4,604,055	08/86	Mackenzie	432	58	
	K	4,648,836	03/87	Thom	432	107	

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	Document Number	Date	Country	Class	Subclass	Transl	ation
	ranioor					Yes	No
L	2074022	09/85	Japan				
M	5939464	08/82	Japan				
N	59219410	12/84	Japan				
0	5825860	02/83	Japan				
P	5653867	05/81	Japan				

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

_	Q	Economical Used Energy Type Continuing Heat Treating Furnace For Aluminum Castings
		Dogyo - Kanetsu Vol. 21 No. 2 Pages 29-36 - March 1984
	R	Brochures describing Beardsley & Pipe PNEU-RECLAIM Sand Reclamation Units
		Prior to August 13, 1992
	S	Brochure describing Fataluminum Sand Reclamation Units - Prior to August 13, 1992
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<sup>\*</sup> EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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	Т	4,39	2,814	07/83	Harding		431	17	0		
	U	4,47	8,572	10/84	Selli .		432	13	3		
	V	4,41	5,444	11/83	Guptail		209	3			
	W	4,41	1,709	10/83	Nakanishi		148	3			
	X	4,70	0,766	10/87	Godderidge	,	164	5			
	Y	4,62	0,586	11/86	Musschoot		164	25	3		
	Z	3,87	1,438	03/75	Vissers et al.		164	5	;		
	AA	4,14	0,467	02/79	Ellison et al.		432	72	2		
	AB	5,25	3,698	10/93	Keough et al.		164	26	9		
	AC	4,45	7,352	07/84	Scheffer		164	5			
	AD	4,57	9,319	04/86	Sasaki		266	25	2		
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	AK	2,98	8,351	06/61	Barnett et al.			263		40		
	AL	4,21	1,274	07/80	Slowinski et al.			164	4	01		
	AM	4,29	4,436	10/81	Takahashi		_	266	2	257		
	AN	3,53	4,946	10/70	Westerkamp et al.	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		263		28		
	AO	4,57	7,671	03/86	Stephan			164	4	101		
	AP	4,54	4,013	10/85	Kearney et al.			164		5		
- ·• · · -	AQ	4,95	5,425	09/90	McKenna			164	2	269		
	AR	4,58	2,301	04/86	Wunning			266		87		
300	AS	3,73	7,280	06/73	Cromp			432		14		
	AT	5,42	3,370	06/95	Bonnemersou et al.			164	132			
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	AV	4012	2158	1989	Germany			164		5		
	AW	1129	0012	07/82	USSR							
	AX	2914	1221	04/79	Germany						į	
	AY	1569	0152	06/80	UK							
		OT	HER DOCUM	ENTS	(Including Author,	Title, D	ate, Peri	tinent Pa	ges,	etc.)		
		ΑZ	Sales brochure d	escribi	ng Thermfire Brand	Sand R	eclamati	on, Gudg	geon	Bros.,	Ltd.	
			believed to be kr	nown to	others prior to 09/8	9						
		BA	Sales brochure d	escribi	ng Simplicity/Richa	ds Gas	Fired Th	nermal R	eclar	nation	System	
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# INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Attorney Docket No. C152 1160.1

Serial No. 10/621,639

Applicant

Howard et al.

Filing Date
July 17, 2003

Group

### U.S. PATENT DOCUMENTS

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### FOREIGN PATENT DOCUMENTS

	Document	Date	Country	Class	Subclass	Transl	ation
	Number		·			Yes	No
вм	2337894	11/74	Germany	В08ь	7/04		
BN	1,564151	04/80	UK				
во	2315958	04/74	Germany	B08b	5/00		
BP	7043571	12/70	France	15/00	11/00		
ВQ	1392405	04/75	UK	25/00	33/18		

# OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	BR	Sales brochure describing AirTrac Brand Fluidizing Conveyor, Air Trac Systems Corp.,
		believed to be known to others prior to 09/89
	BS	Sales brochure describing Fluid Bed Calcifer Thermal Sand Reclamation Systems,
		Dependable Foundry Equipment Co Believed to be known to others prior to 09/89
	BT	Foundry Management & Technology - 12/89 - Vol. 117; No. 12; Pg. G3 - Shakeout/Cleaning/
	Finishing Brochure	

<sup>\*</sup> EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

**EXAMINER'S SIGNATURE:** 

DATE CONSIDERED:



Attorney Docket No. Serial No. C152 1160.1 10/621,639

INF	INFORMATION DISCLOSURE CITATION						Applicant Howard et al.				
		(Use	e several sheets i	if necessi	ary)	Filing Date July 17, 2	Group				
				U.S.	PATENT DOCU	MENTS					
Examiner Initials	Item	Doc Nun		Date	Name	;	Class	Subclass	Filing If Appro		
	BU	5,16	59,913	12/92	Staffin et al.		526	65			
	BV	4,61	3,713 09/86 Staffin et al.			585	241				
	BW	4,06	58,389	01/78	Staffin et al.		34	57A			
	BX	4,62	23,400	11/86	Japka et al.		148	6.35			
	BY	3,76	50,800	09/73	Staffin et al.		128	24.1			
	BZ	4,83	30,605	05/89	Hodate et al.		431	170			
	CA	4,24	12,077	12/80	Нуге		431	19			
	СВ	2,81	13,318	11/57	W. Horth		22	89			
	CC	4,68	31,267	07/87	Leidel et al.		241	23			
	CD	2,38	35,962	10/45	C.A. Barnett		34	13			
	CE	5,85	50,866	12/98	Crafton		164	5			
		<u> </u>	]	FOREI	GN PATENT DO	CUMENTS					
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	CF	119	7981	12/85	Canada		38	18			
	CG	210	4164	08/90	Japan						
	СН	621	10248		Japan	, !					
·	CI	631	08941	05/88	Japan						
	CJ	232	3805	05/73	German						
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	CM	5,829,509	11/98	Crafton		164	5		
	CN	4,177,952	12/79	Rikker		241	40	<u> </u>	
	ĊO	4,325,424	04/82	Scheffer		164	5		
	CP	4,499,940	02/85	Hall		164	36		
,	CQ	6,112,803	09/00	Kruger		164	103		
	CR	4,817,920	04/89	Erfort, Jr.		266	252		
	CS	5,340,418	08/94	Wei		148	549		
	CT	5,536,337	07/96	Wei		148	549		
	CU	4,419,143	12/83	Ito et al.		148	3		
	CV	4,420,345	12/83	Ito et al.		148	3		
	CW	4,177,085	12/79	Chadwick et al.		148	2		
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	CX	5825417	02/83	Japan		C21D	1/00		
	CY	WO 98/14291	04/98	PCT					
	CZ	2187398	09/87	UK		F27B	15/09		
	DA	WO 97/30805	08/97	PCT					
	DB	195 30 975	02/97	Germany		B22C 5/00	B22D 29/00		
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Examiner Initials	Item	Document Number	Date	Name	;	Class	Subclass	Filing If Appro	
	DC	4,027,862	06/77	Schaefer et al.	7	266	160		
	DD	3,996,412	12/76	Schaefer et al.		13	20		
	DE	3,856,583	12/74	Sanders et al.		148	159		
	DF	4,620,884	11/86	Heath		148	128		
	DG	4,752,061	06/88	Dalton et al.		266	87		
	DH	3,675,905	07/72	Placek		263	2		
	DI	3,194,545	07/65	Smith		266	3		
	DJ	3,222,227	12/65	Baugh et al.		148	11.5		
	DK	3,432,368	03/69	Nakamura		148	12		
	DL	3,604,695	09/71	Steeper		266	5T		
	DM	3,794,232	02/74	Petri		226	50		
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	DN	0546210A1	06/93	Europe		B22D 29/00	B22D 31/00		
	DO	2448573	02/79	France		C21D 9/00	1/34, 1/62		
	DP	1-91957	04/89	Japan					
	DQ	3-465	01/91	Japan		B22D	29/00		
	DR	1-122658	05/89	Japan		B22D	29/00		
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	DS	4,021,272	05/77	Asai et al.		148	15		
•	DT	4,098,624	07/78	Laird, Jr.	<del></del>	148	153		
	DU	4,255,133	03/81	Tanifuji et al.		432	24		
	DV	4,257,767	03/81	Price		432	24		
	DW	4,338,077	07/82	Shibayama et al.		432	11		
	DX	4,357,135	11/82	Wilde et al.		432	11		
	DY	4,457,789	07/84	Wilks		148	134		
	DZ	4,606,529	08/86	Tooch		266	80		
	EA	4,832,764	05/89	Merz		148	131		
	EB	4,878,952	11/89	Pillhoefer		148	1		
	EC	5,108,519	04/92	Armanie et al.		148	12.7A		
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	ED	5,108,520	04/92	Liu et al.		148	12.7R		
	EE	5,115,770	05/92	Yen et al.		123	193.6		
	EF	5,120,372	06/92	Yen et al.		420	537		
	EG	5,178,695	01/93	LaSalle et al.	*	148	698		
	EH	5,226,983	07/93	Skinner et al.		148	549		
	EI	5,306,359	04/94	Eppeland et al.		148	511		
	EJ	5,308,410	05/94	Hurimura et al.	-	148	561		
	EK	5,312,498	05/94	Anderson		148	695		
	EL	5,336,344	08/94	Wei		148	549		
·	EM	5,340,089	08/94	Heath et al.		266	87		
	EN	5,485,985	01/96	Eppeland et al.	1	266	87		
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<u> </u>	EO	5,514,228	05/96	Wyatt-Mair et al.		148	551		
-	EP	5,518,557	05/96	Jones et al.		148	511		
	EQ	5,547,523	08/96	Blankenship, Jr. et al	l.	148	677		
	ER	5,551,670	09/96	Heath et al.		266	87		
	ES	5,571,347	11/96	Bergsma		148	550		
	ET	5,593,519	01/97	Blankenship, Jr. et al	l.	148	514		
	EU	5,643,372	07/97	Sainfort et al.		148	699		
	EV	4,490,107	12/84	Kimura et al.		422	11		
	EW	6,217,317	04/01	Crafton et al.		432	128		·
	EX	5,156,800	10/92	Buchet et al.		266	99		
	EY	5,957,188	09/99	Crafton		164	5		
	EZ	6,336,809	01/02	Crafton et al.		432	207		,
	FA	6,547,556	04/03	Crafton et al.		432	124		
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		Number				}		Yes	No
	EB	2,310,541	09/73	Germany		18c	1/00		
	FC	WO 00/36354	06/00	PCT		F27B	5/04		
	FD	0 610 028	08/94	Europe		F27D	3/00		
	FE	WO 02/094479	11/03	PCT		B22D	29/00		
	FF	WO 02/063051	08/02	PCT		B22D	29/00		
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citation if not in conformance and not considered. Include copy of this form with next communication to the applicant. **EXAMINER'S SIGNATURE:** 

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# INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

-	Attorney Docket No. C152 1160.1	Serial No. 10/621,639
	Applicant	

Filing Date Group
July 17, 2003

### U.S. PATENT DOCUMENTS

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Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	FG	4,111,158	09/78	Reh et al.	122	4D	
	FH	4,198,764	04/80	Ellison et al.	34	32	
	FI	4,206,553	06/80	Ellison et al.	34	28	
	FJ	4,804,032	02/89	Wilkins	164	34	
	FK	5,477,906	12/95	Legge et al.	164	122.1	
	FL	5,735,334	04/98	Sutton et al.	164	130	
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### FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Transl	ation
						Yes	No
FM	0 077 511	10/82	Europe	B22D	29/00		
FN	1,030,974	05/58	Germany	31c/32	B22d		
FO	2,137,114	10/84	UK	B01J	8/26		
FP	2,248,569	04/92	UK	B22d	29/00		
FQ	3215809	11/83	Germany	B22D	29/00		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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